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JUL 28 2008

Appl. No. 10/541,228
Reply to Office Action mailed May 5, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended) An affinity trap reactor comprising an enzyme which is bacillolysin MA, a molecule that specifically binds with a substrate of said enzyme and a support, wherein each of said enzyme and said molecule that specifically binds with a substrate of said enzyme are immobilized to said support.

Claim 2. (cancelled)

Claim 3. (currently amended) The affinity trap reactor according to claim ~~[[2]]~~ 1, wherein ~~the enzyme is bacillolysin MA~~ and the molecule that specifically binds with a substrate of said enzyme is lysine.

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Claim 4. (previously presented) A single-stage process for obtaining BL-angiostatin from plasminogen contained in a biological sample comprising:

(a) applying a biological sample containing plasminogen to an affinity trap reactor comprising bacillolysin MA, lysine and a support, wherein each of said bacillolysin MA and said lysine is immobilized to said support, and allowing a reaction of the bacillolysin MA and the plasminogen under conditions of a temperature of 0 to 50°C in the presence of isopropyl alcohol, but in the absence of calcium ions and (b) eluting BL-angiostatin formed by the reaction of the bacillolysin MA and the plasminogen to obtain BL-angiostatin.

Claim 5. (cancelled)

Claim 6. (previously presented) The affinity trap reactor according to claim 1, wherein the support is selected from the group consisting of a porous silica bead support, a cellulose-based support, an agarose-based support, a crosslinked dextran-

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based support and a crosslinked polyacrylamide-based support.

Claim 7. (cancelled)

Claim 8. (previously presented) The affinity trap reactor according to claim 1, wherein the substrate is plasminogen.

Claim 9. (cancelled)

Claim 10. (withdrawn - currently amended) The affinity trap reactor according to claim 1, wherein ~~the enzyme is bacillolysin~~ MA[[,]] the substrate is prothrombin and the molecule that specifically binds with a substrate of said enzyme is hirudine.

Claim 11. (withdrawn-currently amended) The affinity trap reactor according to claim 1, wherein ~~the enzyme is trypsin~~ [[,]] the substrate is preproinsulin and the molecule that specifically binds with a substrate of said enzyme is an anti-insulin antibody.

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Claim 12. (previously presented) The affinity trap reactor according to claim 1, wherein the support is agarose gel.

Claim 13. (previously presented) The process according to claim 4, wherein the support is agarose gel.

Claim 14. (previously presented) The process according to claim 4, wherein the temperature is 4 to 25°C.